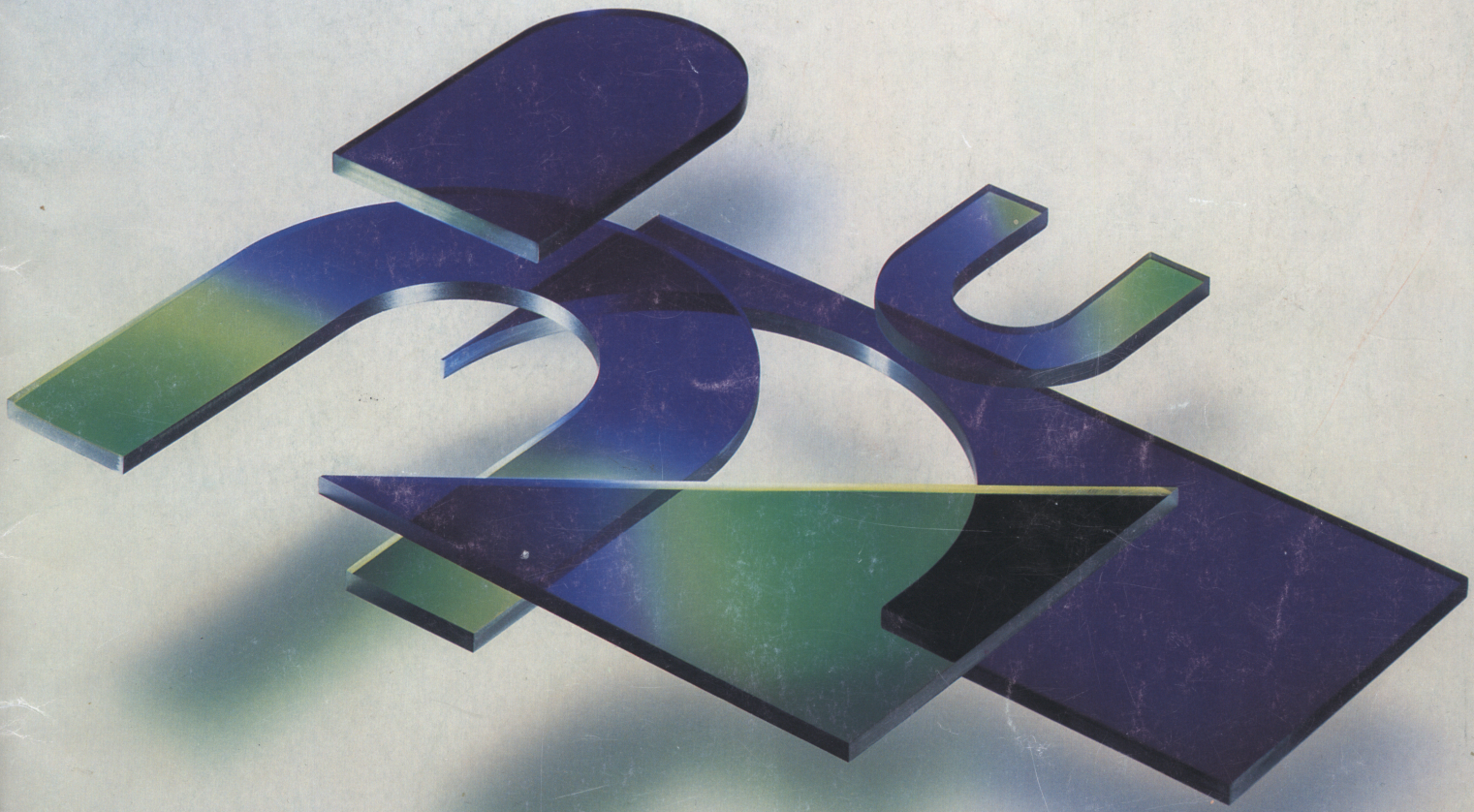
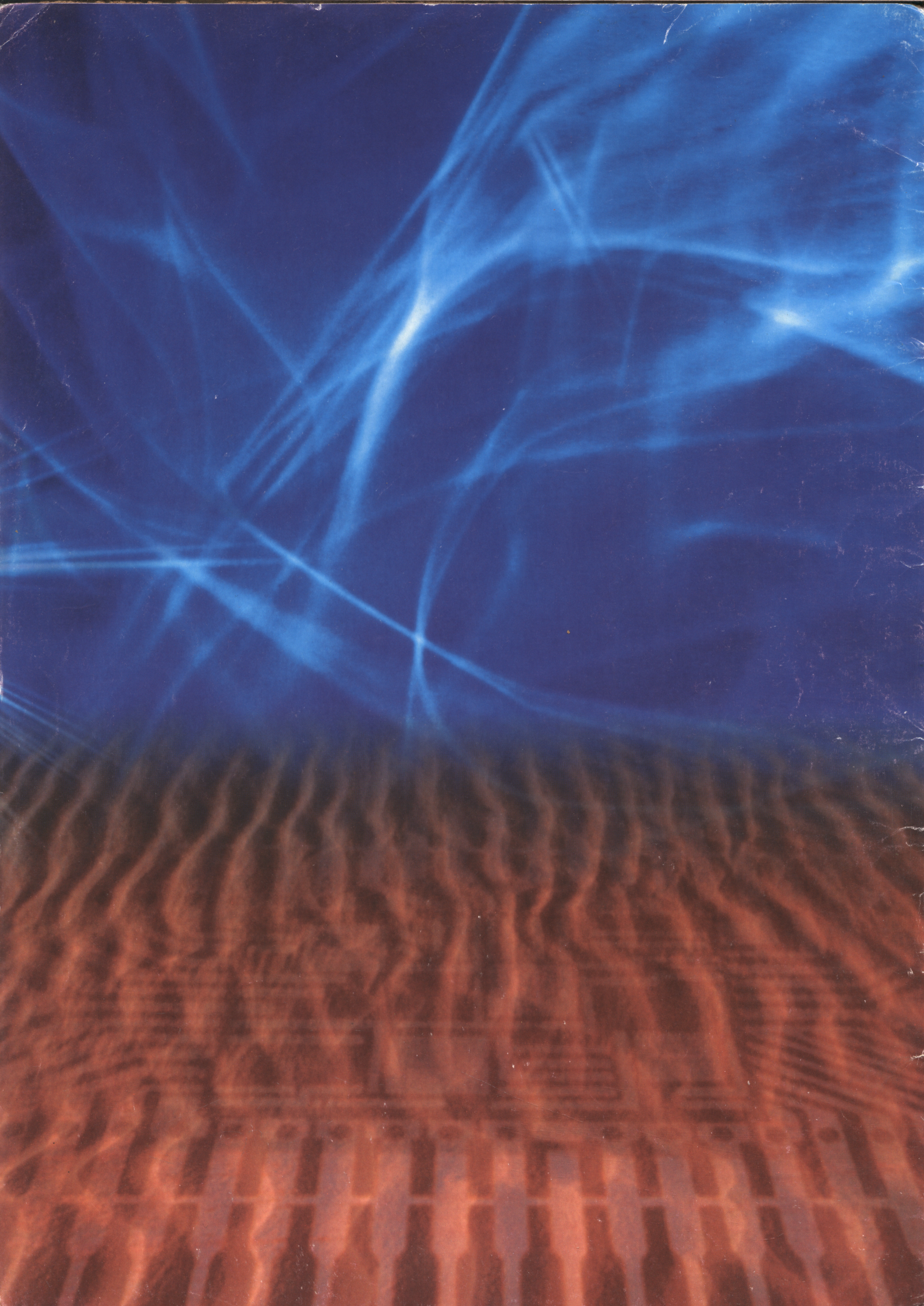
RiscPC



Acorn



Risc PC from Acorn

RISC processing is now widely recognised as the way of the future. RISC (Reduced Instruction Set Computing) processors are more efficient than their competitors, and offer the levels of performance, now and into the future, which the world's most creative software developers are exploiting to bring to the users unparalleled capabilities in true interaction with, and exploitation of, technology.

Risc PC from Acorn offers all the traditional strengths of **RISC** processing, and a great deal more - at a remarkably **affordable** price. Risc PC offers immensely **powerful** products to meet today's requirements. It allows increasing **interconnection** and **interworking** with other technologies and products. And Risc PC's uniquely modular design and architecture provides virtually unlimited potential for **upgrading** to and benefiting from the technologies of **the future**.

As the **world's leading supplier** of 32-bit RISC-based personal computers for over seven years, Acorn is unique in its experience of developing and implementing affordable, robust RISC-based solutions. Solutions which, as other manufacturers are now realising, point the way forward for personal computing.

Risc PC demonstrates Acorn's unrivalled knowledge and understanding of the needs of the educational, individual and professional users who make up Acorn's chosen markets. Over the past seven years Acorn has sold hundreds of thousands of RISC-based systems, enabling literally millions of users to experience and enjoy the benefits of **RISC OS**, Acorn's powerful yet easy-to-use operating system.

Risc PC opens the door on **a wealth of software**. Thousands of existing RISC OS titles, together with software written for DOS/Windows, are available to Risc PC users. And Risc PC's phenomenal capabilities offer software developers an elegant and supportive development platform, paving the way for a whole new generation of multimedia software development.

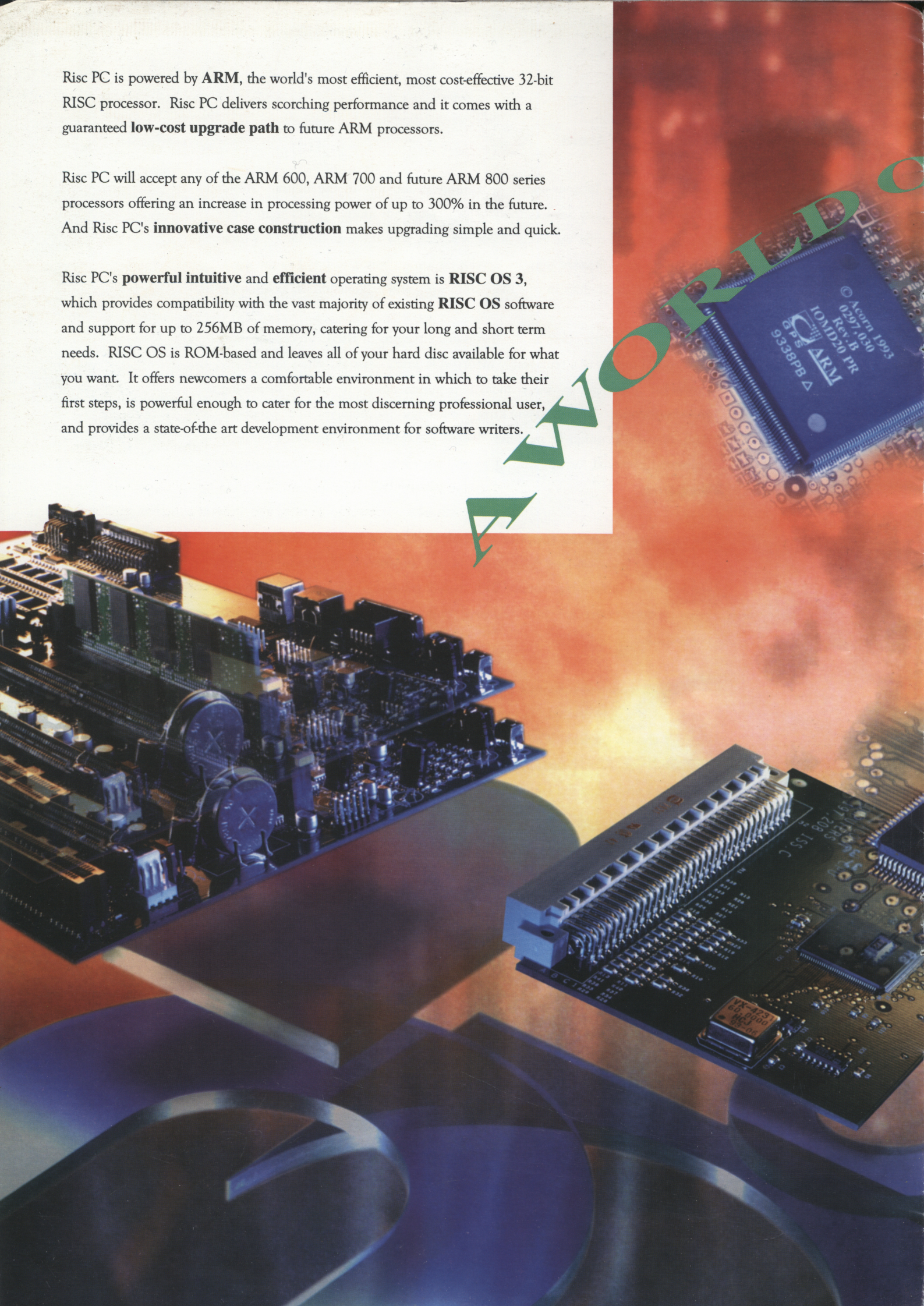
Risc PC is further proof of Acorn's world class technological skills in designing complete, innovative systems at prices its customers can afford.

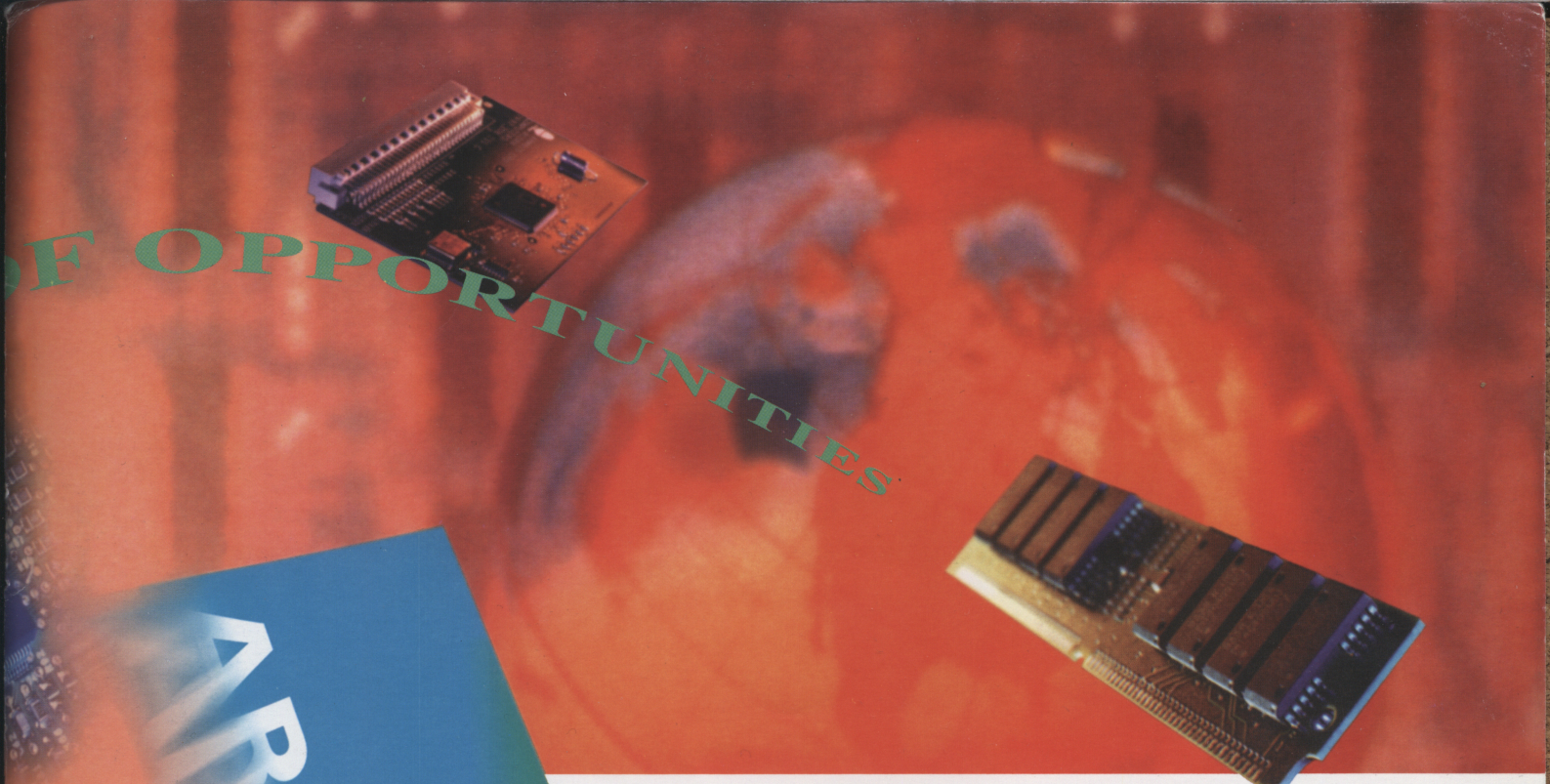
Welcome to Risc PC. The new generation of personal computing.

Risc PC is powered by **ARM**, the world's most efficient, most cost-effective 32-bit RISC processor. Risc PC delivers scorching performance and it comes with a guaranteed **low-cost upgrade path** to future ARM processors.

Risc PC will accept any of the ARM 600, ARM 700 and future ARM 800 series processors offering an increase in processing power of up to 300% in the future. And Risc PC's **innovative case construction** makes upgrading simple and quick.

Risc PC's **powerful intuitive** and **efficient** operating system is **RISC OS 3**, which provides compatibility with the vast majority of existing **RISC OS** software and support for up to 256MB of memory, catering for your long and short term needs. RISC OS is ROM-based and leaves all of your hard disc available for what you want. It offers newcomers a comfortable environment in which to take their first steps, is powerful enough to cater for the most discerning professional user, and provides a state-of-the art development environment for software writers.





DOS/Windows applications? No problem. Risc PC's radical Open Bus capability allows a second processor to be fitted and utilise the memory and other facilities of Risc PC. So, fit a 486 or Pentium alongside the Acorn RISC chip, for the perfect blend of **outstanding performance** and DOS/Windows capability.[1] You can run Risc PC with RISC OS, or as a PC, or multi-task between the two from a RISC OS desktop.

Risc PC offers you technology with a difference. All the advantages of an advanced RISC operating system, with the assurance of broad-based system compatibility.

Why Risc PC from Acorn?

- **The world's most cost- effective, efficient 32-bit RISC computers.**
- **Low cost processor upgrade strategy, protecting your investment today and into the future.**
- **RISC OS - a powerful, multi-tasking operating sytem, tried and tested by millions of users.**
- **A wealth of powerful applications software from personal productivity tools to true multimedia.**
- **Low cost access to DOS and Windows applications.**
- **Lightning fast manipulation of still and moving images.**
- **High-performance multi-channel stereo sound as standard on all models.**
- **Modular and upgradeable computer systems that grow with your needs.**

[1] The first card to exploit this second processor capability,providing high performance 80486 compatibility, will be available from 4th quarter 1994.

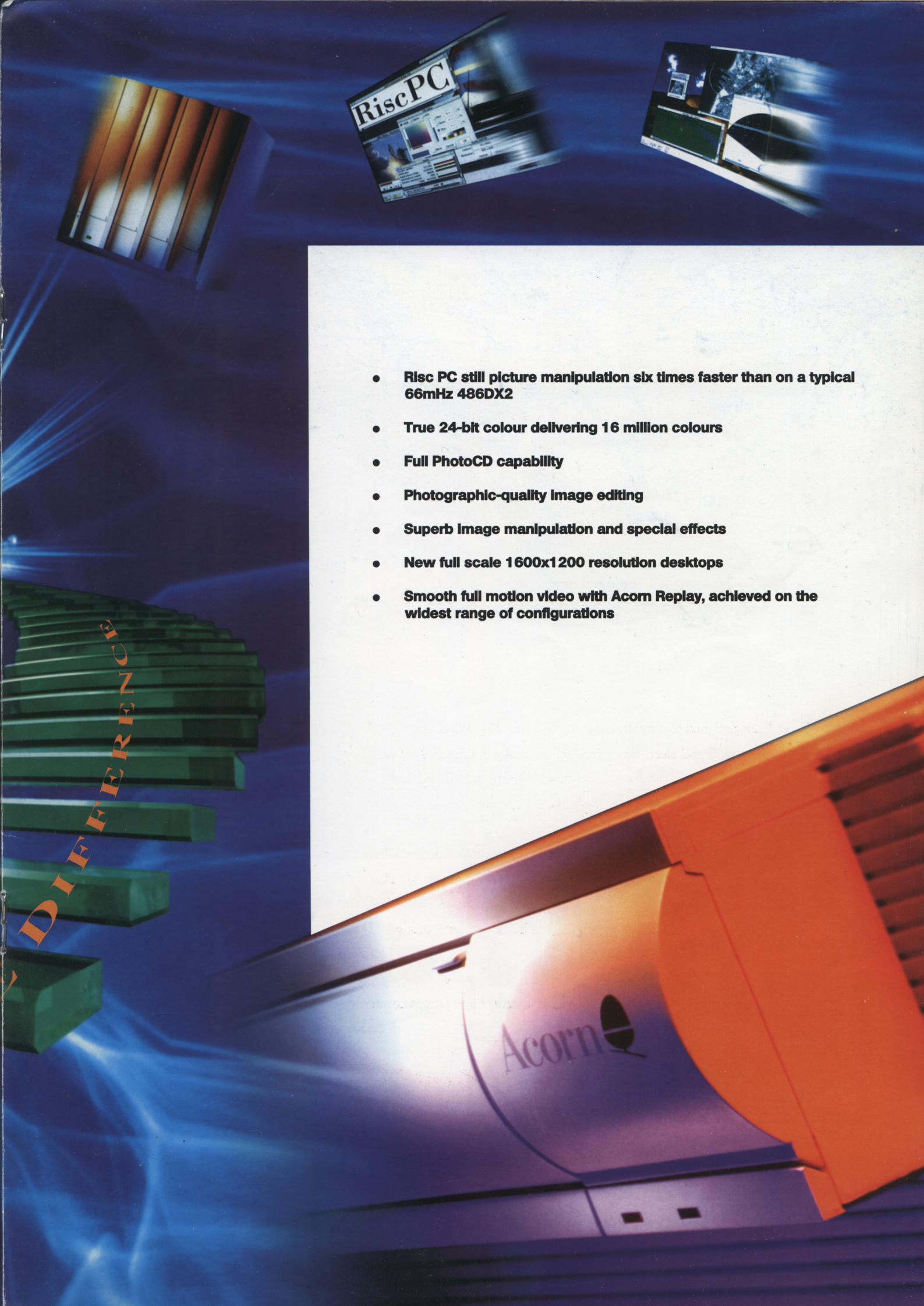
Risc PC has been designed as a totally **modular** system. Risc PC couples **innovative** mechanical and electrical design, with virtually unlimited upgrade capability. So you can start with a basic configuration, and gradually expand - confident that your investment will not be wasted at any stage.

Risc PC creates a new standard in design, which even extends to the case. Clean lines and minimal screws make the case attractive and practical. Every Risc PC case has been built using the same **industrial strength** plastic used for crash helmets! The innovative design enables upgrading to be carried out quickly and easily.

Risc PC's high performance is reflected in its sound system. Eight **stereo sound** channels are offered as standard on all models.

And in the area of **graphics**, both in terms of speed and quality, Risc PC leaves the competition standing.

DELIVERING THE



- **Risc PC still picture manipulation six times faster than on a typical 66mHz 486DX2**
- **True 24-bit colour delivering 16 million colours**
- **Full PhotoCD capability**
- **Photographic-quality image editing**
- **Superb image manipulation and special effects**
- **New full scale 1600x1200 resolution desktops**
- **Smooth full motion video with Acorn Replay, achieved on the widest range of configurations**

Risc PC takes all the standard computing tasks, such as word processing, databasing and spreadsheets, in its stride - as you would expect from a high performance personal computer. But as today's users increasingly look for more powerful, flexible and sophisticated solutions, Risc PC offers a world of capabilities.

Risc PC Multiplatform

Risc PC's second processor slot allows you to plug in a range of complementary processors. With Risc PC, you can enjoy true multiplatform operation. With the addition of a CD-ROM drive, it is also possible to exploit CD-ROMs under other operating environments. Run as a RISC OS system, run as a PC, or multi-task from a RISC OS desktop.

Risc PC for Interworking and Networking

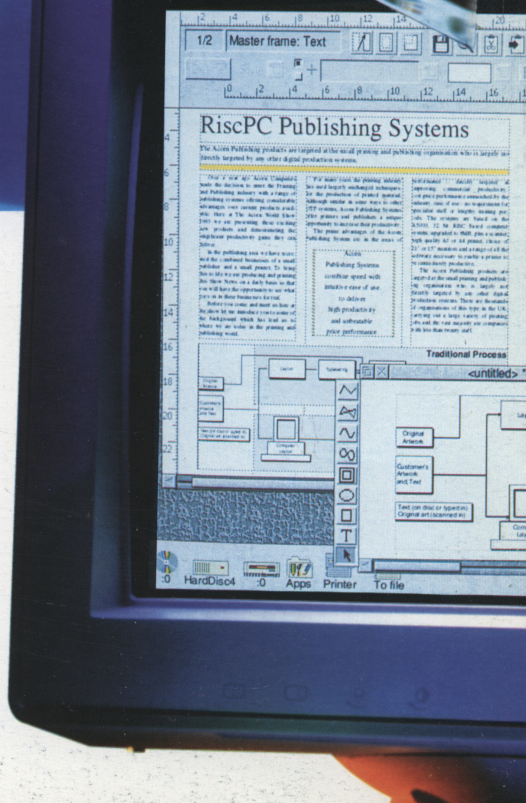
The Risc PC motherboard has a new dedicated network slot, ensuring easy integration with industry standard Ethernet networks. In addition, for server applications, the DEBI and Open Bus interface provides extremely fast connections to support the most demanding server -orientated applications. Risc PC supports all the industry standard protocols, TCP/IP, NFS and X Windows as well as ACCESS, Acorn's easy-to-use and peer-to-peer networking capability.

Risc PC for Multimedia

Every model in the Risc PC range comes with true multimedia capability. Risc PC has more than enough RAM capability to load and manipulate the largest full-colour images, and combine them with text, graphics, video and sound. Risc PC is ready to receive an integral CD-ROM drive, providing Kodak's Photo CD as part of the package. And with Full Motion Video on Acorn Replay, and eight channels of stereo sound built into each model, Risc PC demonstrates the full potential of multimedia in every sense.

Risc PC for Graphics

Risc PC offers professional graphics capability with 24-bit colour, 16 million colours on screen, full size desktops (1600 x 1200), lightning speed re-draw capability and access to fast direct laser printers and industry standard output devices such as imagesetters. RISC OS supports this with a unique anti-aliased outline font system, allowing crystal clear definition whatever the text or image size, ideal for anything up to and including professional printing solutions.



Key Risc PC Technical Features

GRAPHICS DISPLAY
(up to 1600 x 1200 resolution)
(up to 16 million colours)

LID

A monitor of 16 kg can be placed on top!

FIXING DEVICES (NO SCREWS!)

You can padlock the lid if you want!

ADDITIONAL SLICES
(you can have up to seven in all)

5 1/4" DRIVE BAY
(e.g.magneto optical)

3 1/2" DRIVE BAY

FIRST SLICE

A Base Machine contains one slice

DEBI CARDS GO IN THROUGH THE BACK
(2 per slice - max 8 cards)

ROLL DOWN COVER
(keeps dust + fingers out!)

5 1/4" DRIVE BAY (e.g. CD ROM)

3 1/2" 1.6MB FLOPPY DISC DRIVE

BACKPLANE

PARALLEL PORT + SERIAL PORT
NETWORK EXPANSION behind here

OPERATING SYSTEM (RISC OS) IN ROM

ARM PROCESSOR

2nd PROCESSOR

HARD DISC

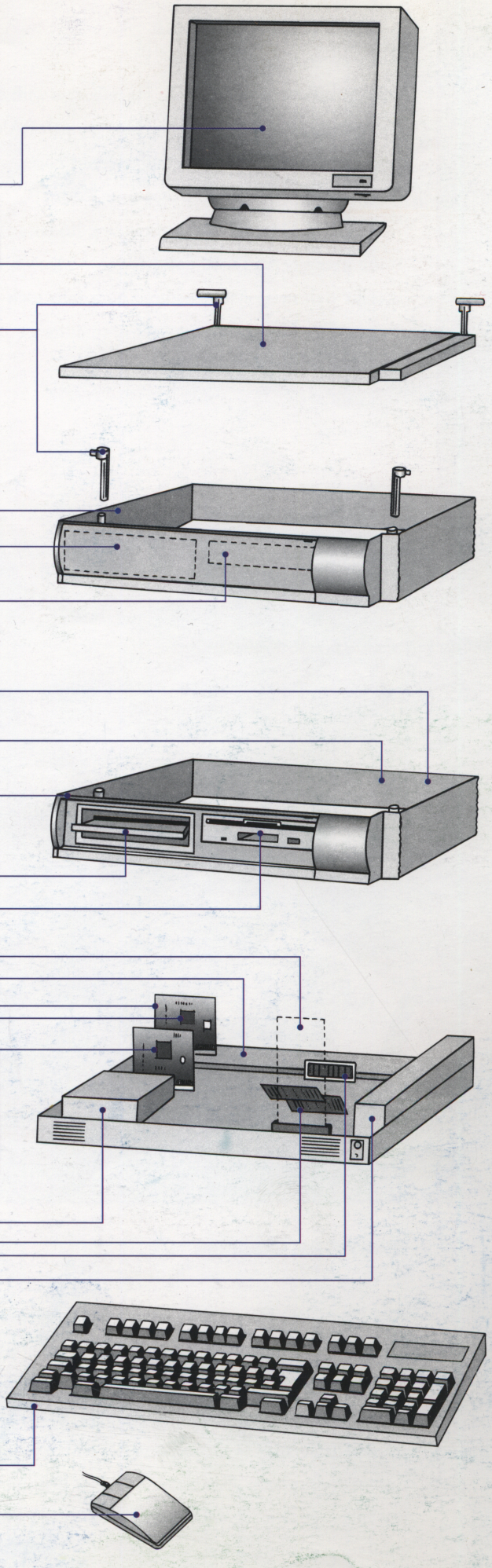
DRAM
(2 sockets - total supported 2MB-256MB)

VRAM (0,1,2MB Options)

POWER SUPPLY

KEYBOARD
(PC Compatible)

MOUSE (3 button)



For full specifications and pricing of models available in the range, see separate data sheet or contact your local dealer.

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